IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#5

In re application of

Group Art Unit:

Brian W. Baird, Michael J. Wolfe, Richard S. Harris, Kevin P. Fahey, Lian-Cheng Zou, and Thomas R. McNeil

Application No.

Filed: concurrently herewith

For: ULTRAVIOLET LASER ABLATIVE PATTERNING OF

MICROSTRUCTURES IN SEMICONDUCTORS

Date: December 14, 2001



INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1.	Pursuant to their duty of disclosure, applicants present for the Examiner's consideration the document listed on the accompanying Form PTO-1449.					
	[X]	Copies of the documents are enclosed.				
		Copies (a copy) of document(s) are (is) not enclosed because they are already of record in U.S. Pat. Application No, filed, which this application relies on for an earlier filing date under 35 U.S.C. § 120. (37 C.F.R. § 1.98(d).)				
2.	[]	Applicant(s) draw(s) the Examiner's attention to the enclosed copy of copending U.S. Pat. Application No, filed, for, which is cited in this application.				
3.	This information disclosure statement is being submitted:					
	a.	[X] Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.)				
	b.	[] After the period set forth in paragraph 1a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)				

				V.		
		i.	[]	A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed.		
		ii.	[]	A statement specified by 37 CFR 1.97(e) is set forth below.		
	c.	[]	or bef	the mailing date of a final action or notice of allowance and on fore payment of an issue fee. A statement specified by 37 CFR e) is set forth below. Enclosed is a \$180.00 information sure statement processing fee set forth in 37 CFR 1.17(p).		
4.	[]	The attorney or agent signing below hereby states that:				
		[]	each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or			
		[]	no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.			
5.	[]	docun		et forth below concise explanations of the relevance of each t in the English language and/or selected documents in the tage.		
				Respectfully submitted,		
				Brian W. Baird, Michael J. Wolfe,		

Brian W. Baird, Michael J. Wolfe, Richard S. Harris, Kevin P. Fahey, Lian-Cheng Zou, and Thomas R. McNeil

By

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Attorney Docket No. 50001/83:2

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Sheet 1 of 1 U.S. DEPARTMENT OF COMMERCE APPLICATION NO. FORM PTO-1449 ATTY. DOCKET NO. PATENT AND TRADEMARK OFFICE 50001/83:2 USA (REV. 7-80) **APPLICANTS** INFORMATION DISCLOSURE CITATION Brian W. Baird, et al. (Use several sheets if necessary) **GROUP** FILING DATE **U.S. PATENT DOCUMENTS** FILING DATE **EXAMINER** DOCUMENT **CLASS SUBCLASS** IF APPROPRIATE DATE **NUMBER** NAME INITIAL 0 9 10/16/01 438 114 AA 3 0 3 Karpman et al. 359 559 01/26/99 Dickey et al. AB 0 8 9 11/24/98 Owen et al. 219 121.69 AC 474.03 AD 7 5 5 8 5 05/12/98 Cutler et al. 364 219 121.71 9 5 5 6 0 6 01/14/97 Owen et al. AE 3 6 5 437 226 AF 5 5 4 3 08/06/96 Wills et al. 3 8 0 10/21/86 Alcorn et al. 148 187 4 6 8 AG 1 29 571 8 9 05/20/86 Anthony AH 5 02/09/99 372 75 ΑI 5 8 7 0 2 Dahm 5 4 0 3 5 09/10/85 361 414 AJ 4 Carlson et al. 1 ΑK AL FOREIGN PATENT DOCUMENTS TRANSLATION **DOCUMENT** YES NO NUMBER **SUBCLASS** DATE **COUNTRY CLASS** 19/39 WO 01/52004 A1 19 July 2001 **PCT** G05B AM WO 00/73013 A1 07 December 2000 **PCT B23K** 26/06 AN **AO** AP OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Anthony, T.R., "Diodes Formed by Laser Drilling and Diffusion," J. Appl. Phys., Vol. 53 (Dec. 1982), AR pp. 9154-9164. Lee, Rex A., et al., "Excimer vs ND:YAG Laser Creation of Silicon Vias for 3D Interconnects," IEEE/CHMT AS International Electronics Manufacturing Symposium (1992), pp. 358-360. AT AU DATE CONSIDERED **EXAMINER**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.